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1 Formal interpreters for diagram notations

Luciano Baresi, Mauro Pezzè

January 2005 **Transactions on Software Engineering and Methodology (TOSEM)****Publisher:** ACM [Request Permissions](#)

Full text available: Pdf (834.85 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [int](#)**Bibliometrics:** Downloads (6 Weeks): 12, Downloads (12 Months): 119, Citation Count: 4

The article proposes an approach for defining extensible and flexible formal interpre notations with significant dynamic semantics. More precisely, it addresses semi-form that have precisely-defined syntax, but informally ...

Key words: Semi-formal notations, graph transformation, high-level Petri nets, sem

2 Formal verification in hardware design: a survey

Christoph Kern, Mark R. Greenstreet

April 1999 **Transactions on Design Automation of Electronic Systems (TODAES)****Publisher:** ACM [Request Permissions](#)

Full text available: Pdf (411.53 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cit](#)**Bibliometrics:** Downloads (6 Weeks): 34, Downloads (12 Months): 341, Citation Count: 18

In recent years, formal methods have emerged as an alternative approach to ensuri correctness of hardware designs, overcoming some of the limitations of traditional v such as simulation and testing. There are two ...

Key words: case studies, formal methods, formal verification, hardware verification containment, model checking, survey, theorem proving

3 A brief survey of program slicing

Baowen Xu, Ju Qian, Xiaofang Zhang, Zhongqiang Wu, Lin Chen


March 2005 **SIGSOFT Software Engineering Notes**, Volume 30 Issue 2**Publisher:** ACM

Full text available: Pdf (535.10 KB)


Additional Information: [full citation](#), [abstract](#), [references](#), [cit](#)**Bibliometrics:** Downloads (6 Weeks): 57, Downloads (12 Months): 567, Citation Count: 11

Program slicing is a technique to extract program parts with respect to some specia Weiser first proposed the notion of slicing in 1979, hundreds of papers have been pi Tens of variants of slicing have been studied, ...

Key words: debugging, dependence analysis, pointer analysis, program analysis, pr

-  [Requirements interaction management](#)
 William N. Robinson, Suzanne D. Pawlowski, Vecheslav Volkov
 June 2003 **Computing Surveys (CSUR)** , Volume 35 Issue 2

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (1.24 MB)


Additional Information: [full citation](#), [abstract](#), [references](#), [cite](#)

Bibliometrics: Downloads (6 Weeks): 75, Downloads (12 Months): 693, Citation Count: 6

Requirements interaction management (RIM) is the set of activities directed toward management, and disposition of critical relationships among sets of requirements, w critical area of requirements engineering. This survey ...

Keywords: KAOS, KATE, Oz, Requirements engineering, Telos, WinWin, analysis ar system, deficiency driven design, dependency analysis, distributed intentionality, in software cost reduction (SCR)., system architecture, system specification, viewpoint

5 [CCured: type-safe retrofitting of legacy software](#)

-  George C. Necula, Jeremy Condit, Matthew Harren, Scott McPeak, Westley Weimer
 May 2005 **Transactions on Programming Languages and Systems (TOPLAS)** ,

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (613.66 KB)


Additional Information: [full citation](#), [abstract](#), [references](#), [cite](#)

Bibliometrics: Downloads (6 Weeks): 21, Downloads (12 Months): 133, Citation Count: 30



This article describes CCured, a program transformation system that adds type safe existing C programs. CCured attempts to verify statically that memory errors cannot run-time checks where static verification is ...

Keywords: Memory safety, libraries, pointer qualifier, subtyping

6 [Communications of the ACM: Volume 52 Issue 4](#)


-  April 2009 **Communications of the ACM**

Publisher: ACM

Full text available:  Digital Edition ,  Pdf (7.58 MB) Additional Information: [full citation](#)


Bibliometrics: Downloads (6 Weeks): 1120, Downloads (12 Months): 1717, Citation Count

7 [GPGPU: general purpose computation on graphics hardware](#)

-  David Luebke, Mark Harris, Jens Krüger, Tim Purcell, Naga Govindaraju, Ian Buck, Cliff Lefohn

August 2004 **SIGGRAPH '04: SIGGRAPH 2004 Course Notes**

Publisher: ACM  [Request Permissions](#)


Full text available:  Pdf (63.03 MB)

Additional Information: [full citation](#), [abstract](#), [cited by](#)


Bibliometrics: Downloads (6 Weeks): 286, Downloads (12 Months): 1516, Citation Count: 1

The graphics processor (GPU) on today's commodity video cards has evolved into an and flexible processor. The latest graphics architectures provide tremendous memory computational horsepower, with fully programmable vertex ...

8 [Fast compiler optimisation evaluation using code-feature based performance p](#)

-  Christophe Dubach, John Cavazos, Björn Franke, Grigori Fursin, Michael F.P. O'Boyle, ...
 May 2007 **CF '07: Proceedings of the 4th international conference on Computing for**

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (409.50 KB)


Additional Information: [full citation](#), [abstract](#), [references](#), [int](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 60, Citation Count: 2

Performance tuning is an important and time consuming task which may have to be new application and platform. Although iterative optimisation can automate this pro many executions of different versions of the ...

Keywords: architecture, artificial neural networks, compiler optimisation, learning, performance modelling

9 [Dynamic metrics for java](#)

 [Bruno Dufour](#), [Karel Driesen](#), [Laurie Hendren](#), [Clark Verbrugge](#)

November 2003 **OOPSLA '03**: Proceedings of the 18th annual ACM SIGPLAN conference programming, systems, languages, and applications

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (222.67 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cit](#)

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 141, Citation Count: 25


In order to perform meaningful experiments in optimizing compilation and run-time researchers usually rely on a suite of benchmark programs of interest to the optimiz under consideration. Programs are described as *numeric*, ...

Keywords: Java, dynamic metrics, execution traces, optimization, profiling, progra metrics

Also published in:

November 2003 **SIGPLAN Notices** Volume 38 Issue 11

10 [How is aliasing used in systems software?](#)

 [Brian Hackett](#), [Alex Aiken](#)

November 2006 **SIGSOFT '06/ FSE-14**: Proceedings of the 14th ACM SIGSOFT interna Foundations of software engineering

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (283.25 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [inc](#)

Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 63, Citation Count: 6

We present a study of all sources of aliasing in over one million lines of C code, iden the common patterns of aliasing that arise in practice. We find that aliasing has a gi in real programs and that just nine ...

Keywords: aliasing, program analysis, satisfiability

11 [Document structure](#)

[Richard Power](#), [Donia Scott](#), [Nadjet Bouayad-Agha](#)

June 2003 **Computational Linguistics**, Volume 29 Issue 2

Publisher: MIT Press


Full text available:  Pdf (498.41 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cit](#)



Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 75, Citation Count: 9

We argue the case for abstract document structure as a separate descriptive level ir generation of written texts. The purpose of this representation is to mediate betwee text (i.e., its discourse structure) and its ...

12 [interactions: Volume 15 issue 1](#)


 January 2008 interactions

Publisher: ACM

Full text available:  [Digital Edition](#) ,  [Pdf \(9.79 MB\)](#) Additional Information: [full citation](#)

Bibliometrics: Downloads (6 Weeks): 314, Downloads (12 Months): 1576, Citation Count: 1

13 [Real-time shading](#)

 [Marc Olano, Kurt Akeley, John C. Hart, Wolfgang Heidrich, Michael McCool, Jason L. Miller](#)
August 2004 **SIGGRAPH '04: SIGGRAPH 2004 Course Notes**


Publisher: ACM  [Request Permissions](#)

Full text available:  [Pdf \(7.39 MB\)](#) Additional Information: [full citation](#), [abstract](#), [cited by](#)



Bibliometrics: Downloads (6 Weeks): 75, Downloads (12 Months): 652, Citation Count: 1

Real-time procedural shading was once seen as a distant dream. When the first version was offered four years ago, real-time shading was possible, but only with one-of-a-kind combining the effects of tens to hundreds of rendering ...

14 [Communications of the ACM: Volume 52 Issue 2](#)


 February 2009 [Communications of the ACM](#)

Publisher: ACM

Full text available:  [Digital Edition](#) ,  [Pdf \(7.09 MB\)](#) Additional Information: [full citation](#)

Bibliometrics: Downloads (6 Weeks): 653, Downloads (12 Months): 2835, Citation Count: 1

15 [Spoken dialogue technology: enabling the conversational user interface](#)

 [Michael F. McTear](#)

March 2002 **Computing Surveys (CSUR)** , Volume 34 Issue 1

Publisher: ACM  [Request Permissions](#)


Full text available:  [Pdf \(987.69 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#)

Bibliometrics: Downloads (6 Weeks): 84, Downloads (12 Months): 715, Citation Count: 25



Spoken dialogue systems allow users to interact with computer-based applications and expert systems by using natural spoken language. The origins of spoken dialogue systems go back to Artificial Intelligence research in the ...

Keywords: Dialogue management, human computer interaction, language generation, understanding, speech recognition, speech synthesis

16 [Communications of the ACM: Volume 52 Issue 3](#)


 March 2009 [Communications of the ACM](#)

Publisher: ACM

Full text available:  [Digital Edition](#) ,  [Pdf \(7.04 MB\)](#) Additional Information: [full citation](#)

Bibliometrics: Downloads (6 Weeks): 749, Downloads (12 Months): 2299, Citation Count: 1

17 [The KScalar simulator](#)

 [J. C. Moura, Dolores L. Rexachs, Emilio Luque](#)

March 2002 **Journal on Educational Resources in Computing (JERI C)** , Volume 2 Issue 1

Publisher: ACM  [Request Permissions](#)


Full text available:  [Pdf \(493.35 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#)

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 80, Citation Count: 1



Modern processors increase their performance with complex microarchitectural mechanisms that makes them more and more difficult to understand and evaluate. KScalar is a graph that facilitates the study of such processors. It allows ...

Keywords: Education, pipelined processor simulator

18 [Communications of the ACM: Volume 51 Issue 9](#)

 September 2008 Communications of the ACM

Publisher: ACM

Full text available:  [Digital Edition](#) ,  [Pdf](#) (8.68 MB) Additional Information: [full citation](#)

Bibliometrics: Downloads (6 Weeks): 561, Downloads (12 Months): 3940, Citation Count: 1

19 [Level set and PDE methods for computer graphics](#)

 David Breen, Ron Fedkiw, Ken Museth, Stanley Osher, Guillermo Sapiro, Ross Whitake
August 2004 **SIGGRAPH '04: SIGGRAPH 2004 Course Notes**


Publisher: ACM  [Request Permissions](#)

Full text available:  [Pdf](#) (17.07 MB) Additional Information: [full citation](#), [abstract](#), [cited by](#)



Bibliometrics: Downloads (6 Weeks): 304, Downloads (12 Months): 1083, Citation Count: 1

Level set methods, an important class of partial differential equation (PDE) methods surfaces implicitly as the level set (iso-surface) of a sampled, evolving nD function. with preparatory material that introduces the ...

20 [interactions: Volume 15 issue 6](#)

 November 2008 interactions

Publisher: ACM

Full text available:  [Digital Edition](#) ,  [Pdf](#) (7.15 MB) Additional Information: [full citation](#)

Bibliometrics: Downloads (6 Weeks): 128, Downloads (12 Months): 850, Citation Count: 0

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